Domain – Banking/Loan

focus – Lower NPA (Non Performing Asset)

Business challenge/requirement

PeerLoanKart is an NBFC (Non-Banking Financial Company) which facilitates peer to peer loan.

It connects people who need money (borrowers) with people who have money (investors). As an investor, you would want to invest in people who showed a profile of having a high probability of paying you back.

You as a ML expert create a model that will help predict whether a borrower will pay

the loan

or not.

Key issues

Ensure NPAs are lower

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meaning PeerLoanKart wants to be very diligent in giving

loan

s

to borrower

C

onsiderations

NONE

D

ata volume

- Approx 9578 records – file loan\_borowwer\_data.csv Fields in Data

* credit.policy: 1 if the customer meets the credit underwriting criteria of PeerLoanKart, and 0 otherwise
* purpose: The purpose of the loan (takes values "credit\_card",

"debt\_consolidation", "educational", "major\_purchase", "small\_business", and "all\_other")

* int.rate: The interest rate of the loan, as a proportion (a rate of 11% would be stored as 0.11). Borrowers judged by PeerLoanKart to be more risky are assigned higher interest rates
* installment: The monthly installments owed by the borrower if the loan is funded
* log.annual.inc: The natural log of the self-reported annual income of the borrower
* dti: The debt-to-income ratio of the borrower (amount of debt divided by annual income)
* fico: The FICO credit score of the borrower
* days.with.cr.line: The number of days the borrower has had a credit line
* revol.bal: The borrower's revolving balance (amount unpaid at the end of the credit card billing cycle)
* revol.util: The borrower's revolving line utilization rate (the amount of the credit line used relative to total credit available)
* inq.last.6mths: The borrower's number of inquiries by creditors in the last 6 months
* delinq.2yrs: The number of times the borrower had been 30+ days past due on a payment in the past 2 years
* pub.rec: The borrower's number of derogatory public records (bankruptcy filings, tax liens, or judgments)
* **not.fully.paid: This is the output field. Please note that 1 means borrower is not going to pay the loan completely**

A

dditional information

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NA

B

usiness benefits

Increase in profits up to 20% as NPA will be

reduced due to loan disbursal for only

good borrowers